

Table 4-2 (Continued)
SWMU Spill Information

Date	Chemical Name	Released to the Ground (Lbs.)	Location of Release
July 28, 2005	Hydrochloric Acid	12	SOUTH OF BRINE TREAT CONTROL ROOM; Piping; no clean-up documented
July 29, 2005	Hydrochloric Acid	20	BETWEEN THE HEADWALL DITCH AND RAILROAD TRACKS; Piping; no clean-up documented
August 1, 2005	Sodium Hydroxide Hydrochloric Acid	70 50	WEST OF TK 437; Tank 416; no clean-up documented
August 1, 2005	Sodium Hydroxide Hydrochloric Acid	14 10	WEST OF TK 437; Piping; no clean-up documented
August 3, 2005	Sodium Hydroxide	280	SODIUM HYDROXIDE RAILCAR LOAD RACK; Railcar; no clean-up documented
August 4, 2005	Hydrochloric Acid	10	NORTH OF TANK CAR REPAIR IN PIPE RACK; Piping; no clean-up documented
August 14, 2005	Sodium Hydroxide	700	WEST OF TK 437; Tank 416; no clean-up documented
August 23, 2005	Sulfuric Acid	385	NORTH OF PENTACHLOROPHENOL PRODUCTION UNIT; Flange; no clean-up documented
September 3, 2005	Hydrochloric Acid	200	SOUTHEAST OF DRUM FILL WAREHOUSE; Piping; area washed down
October 2, 2005	Hydrochloric Acid	10	NEAR SODIUM HYDROXIDE STORAGE TANKS; Piping; no clean-up documented
October 18, 2005	Sodium Hydroxide Hydrochloric Acid	14 10	WEST OF TK 437; Piping; no clean-up documented
November 11, 2005	Hydrochloric Acid	1000	NEAR DEEP DISPOSAL WELL #9; Piping; standing liquid picked up with vacuum and area neutralized and washed down
December 13, 2005	Sodium Hydroxide	700	WEST OF TK 416 AND EAST OF ROAD; Piping; no clean-up documented
January 3, 2006	Hydrochloric Acid	10	CLOSED CALCIUM CHLORIDE PRODUCTION UNIT

Table 4-2 (Continued)
SWMU Spill Information

Date	Chemical Name	Released to the Ground (Lbs.)	Location of Release
October 01, 2004	South Area Waste Water	800000	STORM SEWER BY WASH TANKS OFF MAINSTREET; Sump 450; no clean-up documented
October 04, 2004	Methylene Chloride	198	LOAD LINE BETWEEN TK-34 TO TANK TRAILER LOADING RACK; Piping; no clean-up documented
October 16, 2004	HCl (Anhydrous)	12	CHLORINE PRODUCTION UNIT; Piping; no clean-up documented
November 28, 2004	HCl (Anhydrous)	20	SHIPPING DEPARTMENT NEAR RAILROAD CROSSING; Piping; area washed down
December 21, 2004	South Area Waste Water	400	LOCATED NEAR THE LP-1 HOLDING POND; Tank 416; no clean-up documented
January 04, 2005	South Area Waste Water	160	M-1 PRODUCTION UNIT; Cooling tower; no clean-up documented but containment is scheduled to be increased in size to contain future spills
March 16, 2005	South Area Waste Water	25440	SOUTH AREA STORM SEWERS; Piping and sumps 450 & 446; no clean-up documented
March 24, 2005	Chlorine Dioxide	300	EAST SIDE OF SODIUM CHLORITE PRODUCTION UNIT STORM SEWERS; Tower; soda ash and water added to storm sewers to neutralize
April 21, 2005	Sodium Hydroxide	14	CAUSTIC PRODUCTION UNIT; Piping; no clean-up documented
May 12, 2005	HCl (Anhydrous)	100	CLOSED CALCIUM CHLORIDE PRODUCTION UNIT; Flange; area neutralized and washed down
June 28, 2005	Hydrochloric Acid	11	TANK CAR REPAIR AREA; Piping; area washed down
July 04, 2005	HCl (Anhydrous)	11	NEAR CAUSTIC STORAGE TANKS AT SHIPPING; Piping; area washed down
July 08, 2005	South Area Waste Water	48	WEST SIDE OF TK 437; Tank 416; area washed down
July 14, 2005	South Area Waste Water	450	WEST SIDE OF TK 437; Tank 416; no clean-up documented
July 25, 2005	Sodium Hydroxide	28	H-3 PRODUCTION UNIT; Valve; drip pan placed under leak

Table 4-2 (Continued)
SWMU Spill Information

Date	Chemical Name	Released to the Ground (Lbs.)	Location of Release
June 03, 2004	Brine Water	4500	BRINE TREATMENT UNIT; Valve; area was washed down and the containment in the area was increased to contain additional spills that may occur
June 19, 2004	Methanol	27	SOUTH OF ST-25 METHANOL STORAGE TANK AT RR TRACKS; Loading hose; no clean-up documented
June 21, 2004	Brine Water	27000	BRINE TREATMENT UNIT; Tank; no clean-up documented
July 07, 2004	Brine Water	1650000	NEAR TANK 503 (BRINE TANK) AT M-1 PRODUCTION UNIT; Tank; no clean-up documented
July 08, 2004	HCl (Anhydrous)	97	CAUSTIC STORAGE AREA; Piping; no clean-up documented
July 08, 2004	South Area Waste Water	25	CELL REPAIR AREA; Tank; storm drain and no clean-up documented
July 14, 2004	South Area Waste Water	24	SOUTH OF BRINE TREAT CONTROL ROOM; Piping; no clean-up documented
July 15, 2004	South Area Waste Water	8500	STORM SEWER AT SODIUM CHLORITE PRODUCTION UNIT; Sump; no clean-up documented
July 18, 2004	HCl (Anhydrous)	200	HCL TANKS NORTH OF CALCIUM CHLORIDE; Storage tank; area neutralized and washed down
July 29, 2004	South Area Waste Water Sodium Hydroxide	8500 6000	M-1 STORM SEWER; Sump 459; all went to storm sewer system
August 18, 2004	Brine Water	4000	STORM SEWER FROM SUMP 446 TO LP-1; Sump 446; no clean-up documented
August 23, 2004	Sodium Hydroxide	4200	NORTH SIDE OF C-16 CAUSTIC STORAGE TANK; Storage tank; no clean-up documented
September 05, 2004	HCl (Anhydrous)	420	GRAVELED AREA BETWEEN CALCIUM CHLORIDE AND SHIPPING; Piping; no clean-up documented
October 01, 2004	South Area Waste Water	200000	H-3 PRODUCTION UNIT; Trench; no clean-up documented

Table 4-2 (Continued)
SWMU Spill Information

Date	Chemical Name	Released to the Ground (Lbs.)	Location of Release
August 18, 2003	HCl (Anhydrous)	137	BURNER HCL PRODUCTION UNIT NEAR CHLORINE SNIFF PLANT; Piping; area was neutralized and washed down
August 23, 2003	Hazardous Waste (Includes N. Area Waste Water)	80	PENTACHLOROPHENOL PRODUCTION UNIT; Piping; area was washed down by torrential rains
October 09, 2003	HCl (Anhydrous)	50	HCL TANK FARM TO THE EAST OF VCRU; Flange; area was washed down
October 16, 2003	HCl (Anhydrous)	175	HCL TANK FARM TO THE EAST OF VCRU; Piping; area was neutralized and washed down
October 29, 2003	Sodium Hydroxide	686	CAUSTIC RAILCAR LOAD RACK; Loading hose; area was washed down
December 24, 2003	HCl (Anhydrous)	10	NEAR HEADWALL DITCH IN PIPE RACK ABOVE RR TRACKS; Gasket; area washed down
January 03, 2004	Sodium Hydroxide	100	PIPE LEAKING NEAR BASIN #3; Piping; catch basin was placed under leak and area was washed down
March 02, 2004	HCl (Anhydrous)	4	LOCATED AT BURNER HCL PLANT NEAR CHLORINE SNIFF PRODUCTION UNIT; Piping; area was neutralized and washed down
March 10, 2004	South Area Waste Water	276	DISPOSAL HEADER NEAR SUMP 450; Piping; area was washed down
March 11, 2004	Brine	3900000	STORM SEWER IN THE SOUTH AREA OF PLANT; Tank; no clean-up
March 12, 2004	South Area Waste Water	180	NORTH OF THE CAUSTIC PLANT ; Sump 446; no clean-up documented
March 12, 2004	South Area Waste Water	200	LOCATED AT SODIUM CHLORITE PRODUCTION UNIT; Sump; no clean-up documented
May 12, 2004	Sodium Hydroxide	52	PIPE LOCATED BETWEEN CAUSTIC STORAGE TANKS; Piping; area was washed down
May 17, 2004	HCl (Anhydrous)	20	CHLOROMETHANES PRODUCTION UNIT; Piping; area was washed down
May 22, 2004	Sodium Hydroxide	550	PIPING BETWEEN BRINE TREAT AND TANK 5 ACID TANK; Piping; no clean-up documented

Table 4-2 (Continued)
SWMU Spill Information

Date	Chemical Name	Released to the Ground (Lbs.)	Location of Release
October 01, 2002	South Area Waste Water	400000	TRENCH LOCATED AT H-3; Trench; no clean-up documented
October 05, 2002	Chloroform Methylene Chloride	204 221	EAST END OF THE CHLOROMETHANES PRODUCTION UNIT; Piping; soil & rock excavated and drummed for off-site disposal
November 28, 2002	HCl (Anhydrous)	100	LOCATED TO THE NORTH OF THE HEADWALL DITCH AT THE HCL TANKS; Piping; area neutralized and washed down
January 13, 2003	Hazardous Waste (Includes N. Area Waste Water)	83.4	PIPE RACK NORTH OF #2 BASIN; Piping; no clean-up documented
February 18, 2003	Hazardous Waste (Includes N. Area Waste Water)	25	PIPE RACK NORTH OF #2 BASIN; Piping; all standing liquid picked up with vacuum truck
June 12, 2003	Sodium Hydroxide	480	SODIUM HYDROXIDE TRAILER LOAD RACK; Loading hose; area washed down
June 15, 2003	Carbon Tetrachloride Chloroform	52 72	PIPING BETWEEN IW30 AND IW31 SOUTH OF THE LANDFILL AND CONTRACTOR AREAS; Piping; all standing liquid picked up with vacuum truck
June 16, 2003	South Area Waste Water	26688	PIPING FROM TK 437; Piping; no clean-up documented
June 17, 2003	Hazardous Waste (Includes N. Area Waste Water)	81	DISPOSAL HEADER SOUTH OF DRUM FILL WAREHOUSE; Pipe; no clean-up documented
June 19, 2003	Sodium Hydroxide	50	H3 PRODUCTION UNIT; Piping; area washed down
June 25, 2003	HCl (Anhydrous)	20	PIPE LINE WEST OF CACL2 PLANT EAST SIDE OF ROAD; Flange; area washed down
July 05, 2003	Sodium Hydroxide	100	CAUSTIC TANK CAR LOADING RACK; Piping; area washed down
August 16, 2003	South Area Waste Water	1100	AREA AROUND CAUSTIC STORAGE TANKS AND BASIN #3; Piping; area washed down
August 17, 2003	Sodium Hydroxide	195	CELL LIQUOR LINE NORTH OF H-3; Piping; area was washed down

Table 4-2 (Continued)
SWMU Spill Information

Date	Chemical Name	Released to the Ground (Lbs.)	Location of Release
October 16, 2001	chloroform	96.24	SOLVENT TRAILER LOAD RACK; Gasket; soil & rock excavated and drummed for off-site disposal
October 21, 2001	Hazardous Waste (Includes N. Area Waste Water)	40	PIPING BETWEEN THE HEADWALL DITCH AND DEEP DISPOSAL FACILITY UNDER THE ROADWAY; Flange; Standing liquid picked up with vacuum truck
November 14, 2001	Sodium Hydroxide	700	CAUSTIC TRAILER LOAD RACK OFF OF MAIN STREET; Loading hose; area neutralized and washed down
December 01, 2001	HCL (Anhydrous)	290	WEST SIDE OF THE GORE FILTERS PAD AT BRINE TREAT; Piping; no clean-up documented
December 06, 2001	Carbon Tetrachloride	62.2	PUMP LOCATED ON THE WEST SIDE OF ST-40 NEAR CLOSED VFS PRODUCTION UNIT; Pump seal; soil & rock excavated and drummed for off-site disposal
January 12, 2002	HCL (Anhydrous)	24	NEAR DEEPWELL #4 ANNULUS OIL TANK; Loading hose; area washed down
February 13, 2002	HCl (Anhydrous)	1689	LOCATED AT THE DEEP DISPOSAL FACILITY; Valve; area washed down
March 01, 2002	HCl (Anhydrous)	1448	CHLOROMETHANES PRODUCTION UNIT NEAR TANK FARM; Pressure gauge; area neutralized and washed down
April 09, 2002	Hazardous Waste (Includes N. Area Waste Water)	96.5	DISPOSAL HEADER WEST OF DRUM FILL WAREHOUSE; Piping; area neutralized and washed down
April 11, 2002	HCl (Anhydrous)	290	HCL TANK CAR LOADING AREA; Railcar; area neutralized and washed down
June 24, 2002	HCl (Anhydrous)	96	HCL TANK CAR LOADING AREA; Gasket; area neutralized and washed down
August 21, 2002	Chloroform	802	LOCATED TO THE EAST OF THE VCRU NEAR THE NF CHLOROFORM TANKS; Tank; soil & rock excavated and drummed for off-site disposal
August 22, 2002	Hazardous Waste (Includes N. Area Waste Water)	10008	LOCATED IN THE HEADWALL DITCH; Pipeline rupture; no clean-up documented

Table 4-2 (Continued)
SWMU Spill Information

Date	Chemical Name	Released to the Ground (Lbs.)	Location of Release
April 24, 2000	Methylene Chloride	200	ORGANIC TANK FARM; Flange; no clean-up documented
September 13, 2000	HCL (Anhydrous)	983	HCL LOAD RACK AT SHIPPING; Piping; area neutralized and washed down
September 15, 2000	Sodium Hydroxide	239	NORTH OF PENTACHLOROPHENOL PLANT OVER RAILROAD TRACKS; Piping; area washed down
October 12, 2000	Hazardous Waste (Includes N. Area Waste Water)	8131.5	SODIUM CHLORITE PRODUCTION UNIT; Gasket; neutralized and area washed down
October 21, 2000	phenol	504	PENTACHLOROPHENOL PRODUCTION UNIT; Storage tank; area neutralized and washed down
January 09, 2001	Hazardous Waste (Includes N. Area Waste Water)	40032	BASIN #2 AREA; Valve; standing liquid picked up by vacuum truck
January 10, 2001	Hazardous Waste (Includes N. Area Waste Water)	12510	BRINE TREAT AREA; Flange; no clean-up documented
January 12, 2001	chloroform	6.8	ORGANIC TANK FARM (ST-22) SOUTH OF CHLOROMETHANES; Storage tank; standing liquid picked up with vacuum truck
March 31, 2001	chloroform	843	SOLVENT TRAILER LOAD RACK; Filter; soil & rock excavated and drummed for off-site disposal
May 06, 2001	HCL (Anhydrous)	1637.82	PIPE RACK NORTH OF DEEP DISPOSAL FACILITY; Piping; area neutralized and washed down
July 22, 2001	HCL (Anhydrous)	1500	ORGANIC TANK FARM-Piping; no clean-up documented
July 23, 2001	HCL (Anhydrous)	500	PIPING FROM TK 5 ACID TANK TO LOAD RACK ; Gasket; no clean-up documented
August 30, 2001	Sodium Hydroxide	102080	MEMBRANE AND DIAPHRAGM STORAGE TANK AREA; Valve; no clean-up documented
October 11, 2001	Hazardous Waste (Includes N. Area Waste Water)	777	LOCATED AT M-1 PRODUCTION UNIT; Sump 459 Overflow; no clean-up documented

Table 4-2 (Continued)
SWMU Spill Information

Date	Chemical Name	Released to the Ground (Lbs.)	Location of Release
April 18, 1997	Hexachloroethane Chloroform Carbon Tetrachloride Trichloroethylene Methylene Chloride 1,1,2-Trichloroethane 1,1,2,2-Tetrachloroethane Pentachloroethane	4.06 37.37 233.66 5.13 2.81 5.07 11.31 11.48	ORGANIC STORAGE TANKS TO RAIL CAR LOADING; Flange; soil & rock excavated and drummed for off-site disposal
April 25, 1997	HCL (Anhydrous)	100	ACID TANK FARM NEAR SHIPPING AND TRANSFER LINES; Valve; no clean-up documented
May 02, 1997	HCL (Anhydrous)	933	BURNER PLANT SOUTH OF CHLORINE SNIFF PLANT; Piping; soil & rock excavated and drummed for off-site disposal
September 29, 1997	Chloroform	55.8	100 FEET EAST OF DRUM FILL WAREHOUSE; Piping; no clean-up documented
May 22, 1998	HCL (Anhydrous)	19.3	CAUSTIC STORAGE AREA; Storage tank; no clean-up documented
July 16, 1998	HCL (Anhydrous)	1100	ORGANIC TANK FARM; Piping; no-clean up documented
August 05, 1998	HCL (Anhydrous)	90	HCL TRANSFER RACK AT CALCIUM CHLORIDE; Piping; area neutralized and washed down
August 12, 1998	HCL (Anhydrous)	483	NEAR COOLING TOWER #4 BY THE CHLORINE SNIFF PLANT; Piping; spill neutralized and washed down
September 02, 1998	HCL (Anhydrous)	427.25	CHLOROMETHANES PRODUCTION UNIT; Rupture disk; no clean-up documented
November 05, 1998	HCL (Anhydrous)	482.5	ORGANIC TANK FARM; Tank car; neutralized and washed down
January 31, 2000	HCL (Anhydrous)	141.6	HCL LOAD RACK AT SHIPPING; Piping; area washed down

Table 4-2
SWMU Spill Information

Date	Chemical Name	Released to the Ground (Lbs.)	Location of Release
December 26, 1991	Hydrochloric Acid	1000	RAILCAR LOAD RACK; Railcar overfilled and the area was neutralized and washed down to clean up spill.
January 30, 1992	Hydrochloric Acid	500	NEAR OLD VFS PRODUCTION UNIT; Hose off of tower; area was neutralized and washed down for clean up.
March 30, 1992	Hydrochloric Acid	100	SHIPPING NEAR MAIN STREET; Valve leaks; no clean up documented
February 07, 1993	Perchloroethylene Carbon Tetrachloride	670 665	CHLOROMETHANES PRODUCTION UNIT; Storage tank; contaminated soil and gravel drummed for off-site disposal
November 09, 1995	Chloroform	123	SHIPPING AREA NEAR NF CHLOROFORM STORAGE TANKS; Storage tank; no clean-up documented
November 29, 1995	Hazardous Waste (Includes N. Area Waste Water)	1710	BASIN #2 AREA; Piping; no clean-up documented
December 28, 1995	Chloroform	440	CHLOROMETHANES CHECK TANKS AREA (ST-10); Piping; standing liquid picked up with vacuum truck and soil & gravel drummed for off-site disposal
March 28, 1996	Hazardous Waste (Includes N. Area Waste Water)	250	DRUM FILL WAREHOUSE; Piping; no clean-up documented
May 21, 1996	Perchloroethylene Methylene Chloride Chloroform Carbon Tetrachloride Trichloroethylene 1,1,2-Trichloroethane Hexachloroethane Hexachlorobutadiene Hexachlorobenzene Pentachloroethane 1,1,2,2-Tetrachloroethane	109.5 2104.5 880 952.5 65.5 49.75 53.5 0.95 9.5 110 176.5	RAILROAD AREA BETWEEN CHLOROMETHANES AND OLD VFS PLANT; Flange; soil & rock excavated and drummed for off-site disposal